CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/DD/2021/19

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Date: 18.04.2021

To,

Executive Engineer,

Dasarahalli Division,

Bruhat Bangalore Mahanagara Palike,

Bangalore.

CERTIFICATE

Reference : BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020

Name of work: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Final Bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

With Regards,

Civil-Tech Consultants & Engineers Bangalore

For Civil-Tech Consultants and Engineers

18/4/2021

Authorized Signature

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿ...
ಉ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾ...
ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ja@civiltech...

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/CSR-5h/CEMENT/2020-21 Date: 08.01.2021

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Cement
Sample Received on	:	06.01.2021
Period of Testing	:	06.01.2021 to 08.01.2021
Report Issue Date	:	08.01.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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ಬಾಗಲಗುಂಟೆ ...
ಬೆಂಗಳೂರು 560073

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/SAND-Gradation/2020-21

08.01.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 06.01.2021
Date of Testing	: 08.01.2021
Report Issue Date	: 08.01.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.20	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	56.70	30-70	55-90	75-100	90-100
600 Micron	37.20	15-34	35-59	60-79	80-100
300 Micron	15.60	5-20	8-30	12-40	15-50
150 Micron	3.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :
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Job No.: CTCE/BBMP/KRIDL/CSR-5h/AGG/GR/2020-21 08.01.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	06.01.2021
Date of Testing	:	08.01.2021
Report Issue Date	:	08.01.2021

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.06	95-100	85-100
20	39.94	30-70	0-20
10	15.62	10-35	0-5
4.75	2.88	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

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Civil-Tech Consultants & Engineers Bangalore (stamp)

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/AGG/GR/202-21 08.01.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	06.01.2021
Date of Testing	:	08.01.2021
Report Issue Date	:	08.01.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.08	90-100	85-100
10	30.30	25-55	0-20
4.75	4.94	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KRIDL/Steel/2020-21 11.01.2021

TEST REPORT ON REINFORCEMENT STEEL

* **Customer**	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* **Agency**	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* **Name of work**	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* **Reference**		BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* **Samples ID**	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	11.01.2021
Report Issue Date	:	11.01.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Pooja K.L

Authorised Signatory

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Job No.: CTCE/BBMP/KRIDL/Steel/2020-21 11.01.2021

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference		BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Samples ID	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	11.01.2021
Report Issue Date	:	11.01.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	516	557	13.25	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	15.02.2021
Report Issue Date	:	15.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.326	625.3	27.79
2	18.01.2021	15.02.2021	8.214	610.3	27.13
3	18.01.2021	15.02.2021	8.425	590.4	26.24

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Drain Raft Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 15.02.2021
Report Issue Date	: 15.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.456	586.8	26.08
2	18.01.2021	15.02.2021	8.321	601.4	26.73
3	18.01.2021	15.02.2021	8.147	614.8	27.32

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 22.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	22.02.2021
Report Issue Date	:	22.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2021	22.02.2021	8.326	597.4	26.55
2	25.01.2021	22.02.2021	8.500	628.7	27.94
3	25.01.2021	22.02.2021	8.498	621.7	27.63

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 22.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	22.02.2021
Report Issue Date	:	22.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2021	22.02.2021	8.400	590.7	26.25
2	25.01.2021	22.02.2021	8.311	608.3	27.04
3	25.01.2021	22.02.2021	8.274	623.2	27.70

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

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ಬೃ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

ಬಾಗಲಗುಂಟೆ, ೨೮.೨೮.ಎಂ.ಪಿ

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 24.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	24.02.2021
Report Issue Date	:	24.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2021	24.02.2021	8.362	604.2	26.85
2	27.01.2021	24.02.2021	8.241	625.4	27.79
3	27.01.2021	24.02.2021	8.222	629.7	27.99

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 24.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	24.02.2021
Report Issue Date	:	24.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2021	24.02.2021	8.111	601.5	26.73
2	27.01.2021	24.02.2021	8.270	618.4	27.48
3	27.01.2021	24.02.2021	8.300	622.7	27.68

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 — 26.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	26.02.2021
Report Issue Date	:	26.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.01.2021	26.02.2021	8.465	610.4	27.13
2	29.01.2021	26.02.2021	8.322	600.8	26.70
3	29.01.2021	26.02.2021	8.412	628.3	27.9[illegible]

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 26.02.2021

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* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	26.02.2021
Report Issue Date	:	26.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.01.2021	26.02.2021	8.444	589.4	26.19
2	29.01.2021	26.02.2021	8.270	613.5	27.27
3	29.01.2021	26.02.2021	8.310	623.5	27.71

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 01.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.02.2021	01.03.2021	8.123	607.4	27.00
2	01.02.2021	01.03.2021	8.302	624.2	27.74
3	01.02.2021	01.03.2021	8.424	597.9	26.57

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 01.03.2021

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* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Drain Side Wall Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 01.03.2021
Report Issue Date	: 01.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.02.2021	01.03.2021	8.100	630.4	28.02
2	01.02.2021	01.03.2021	8.340	626.2	27.83
3	01.02.2021	01.03.2021	8.415	618.0	27.46

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 03.03.2021

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* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28th day
Sample Received on	:	03.03.2021
Report Issue Date	:	03.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2021	03.03.2021	8.145	632.2	28.10
2	03.02.2021	03.03.2021	8.350	627.9	27.91
3	03.02.2021	03.03.2021	8.274	619.7	27.54

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03.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: Technical Manager (West), KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
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* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
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Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 03.03.2021
Report Issue Date	: 03.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2021	03.03.2021	8.475	621.6	27.63
2	03.02.2021	03.03.2021	8.196	639.7	28.43
3	03.02.2021	03.03.2021	8.500	590.8	26.26

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* Name of the work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Culvert Raft Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 01.03.2021
Report Issue Date	: 01.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.02.2021	01.03.2021	8.491	619.3	27.52
2	01.02.2021	01.03.2021	8.302	605.4	26.91
3	01.02.2021	01.03.2021	8.400	587.3	26.10

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* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Culvert Side Wall Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 11.03.2021
Report Issue Date	: 11.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2021	11.03.2021	8.499	636.2	28.28
2	11.02.2021	11.03.2021	8.310	628.7	27.94
3	11.02.2021	11.03.2021	8.260	612.0	27.20

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Compressive Strength as on	: 28th day
Sample Received on	: 11.03.2021
Report Issue Date	: 11.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2021	11.03.2021	8.419	608.5	27.05
2	11.02.2021	11.03.2021	8.318	598.3	26.59
3	11.02.2021	11.03.2021	8.200	626.0	27.82

*Information is furnished by the Customer/Representative.

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Pooja K. L.

Authorised Signatory

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ಬಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21

22.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Drain Covering Slab Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 22.03.2021
Report Issue Date	: 22.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2021	22.03.2021	8.163	640.1	28.45
2	22.02.2021	22.03.2021	8.500	622.4	27.66
3	22.02.2021	22.03.2021	8.420	601.9	26.75

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21

22.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: RCC Drain Covering Slab Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 22.03.2021
Report Issue Date	: 22.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2021	22.03.2021	8.419	595.9	26.48
2	22.02.2021	22.03.2021	8.318	603.3	26.81
3	22.02.2021	22.03.2021	8.200	617.5	27.44

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21

11.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	: Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	: Cement Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 11.03.2021
Report Issue Date	: 11.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2021	11.03.2021	8.456	389.1	17.30
2	11.02.2021	11.03.2021	8.123	395.1	17.56
3	11.02.2021	11.03.2021	8.321	367.2	16.32

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Cube/2020-21 11.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of the work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28th day
Sample Received on	:	11.03.2021
Report Issue Date	:	11.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2021	11.03.2021	8.159	369.0	16.40
2	11.02.2021	11.03.2021	8.336	382.2	16.98
3	11.02.2021	11.03.2021	8.315	399.3	17.75

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/SAND-Gradation/2020-21

11.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
*Sample ID	:	Sand Pointing
Test Method As Per	:	IS : 1542 : 1992 (RA-2019)
Sample Received on	:	09.02.2021
Date of Testing	:	11.02.2021
Report Issue Date	:	11.02.2021

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.40	95-100
2.36	97.10	95-100
1.18	94.80	90-100
600 Micron	89.90	80-100
300 Micron	46.60	20-65
150 Micron	8.40	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Precast Slab/2020-21

01.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Precast Slab (100 mm Thick)
* Grade of Concrete	:	M_{20}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	27.02.2021
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.423	2692.90	1.60	0.957	31.25	15.92	17.19	17.96	22.46
2	50.00	81.00	0.469	2948.89	1.62	0.959	30.98	15.78	17.04	17.77	22.21
3	50.00	79.00	0.395	2546.48	1.58	0.955	30.24	15.40	16.63	17.42	21.78

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Precast Slab/2020-21

01.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West), KRIDL,** No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Precast Slab (250 mm Thick)
* Grade of Concrete	:	M_{20}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	27.02.2021
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.471	2961.46	1.62	0.959	31.74	16.17	17.46	18.21	22.76
2	50.00	79.00	0.389	2507.80	1.58	0.955	30.41	15.49	16.73	17.52	21.90
3	50.00	80.00	0.435	2769.30	1.60	0.957	31.22	15.90	17.17	17.95	22.43

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/Kerb Stone/2020-21

01.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Kerb Stone
* Grade of Concrete	:	M_{15}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	27.02.2021
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.990	6382.31	1.58	0.955	22.85	11.64	12.57	13.17	16.46
2	50.00	80.00	0.431	2743.83	1.60	0.957	23.19	11.81	12.76	13.33	16.66
3	50.00	81.00	0.485	3049.49	1.62	0.959	23.74	12.09	13.06	13.62	17.02

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/WMM/Gradation/2020-21

01.03.2021

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

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Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	112	112	2.2	97.8	95-100
22.4	1530	1642	32.84	67.16	60-80
11.2	1029	2671	53.42	46.58	40-60
4.75	620	3291	65.82	34.18	25-40
2.36	490	3781	75.62	24.38	15-30
0.600	455	4236	84.72	15.28	8-22
0.075	601	4837	96.74	3.26	0-5

*Information is furnished by the Customer/Representative.

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Authorised Signatory

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Job No.: CTCE/BBMP/KRIDL/WMM/Gradation/2020-21 01.03.2021

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

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Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	102	102	2.0	98.0	95-100
22.4	1518	1620	32.40	67.60	60-80
11.2	1036	2656	53.12	46.88	40-60
4.75	632	3288	65.76	34.24	25-40
2.36	499	3787	75.74	24.26	15-30
0.600	442	4229	84.58	15.42	8-22
0.075	594	4823	96.46	3.54	0-5

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/WMM/AIV/2020-21

01.03.2021

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2016)
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	296	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	22.37	22.72	22.54

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/KRIDL/WMM/Shape.T/2020-21

01.03.2021

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2016)
Date of Testing	:	01.03.2021
Report Issue Date	:	01.03.2021

Sl.No.	Description	Result
1	Flakiness Index	16.12%
2	Elongation Index	10.74%
3	Combined Flakiness & Elongation Index	26.86%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

Note:

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Job No.: CTCE/BBMP/KRIDL/CSR-5h/QB(DBM)/2021-22 Dated: 09.04.2021

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Bitumen
Source/ Location	:	Hot Mix Plant, Bangalore.
Sample Received on	:	07.04.2021
Period of Testing	:	07.04.2021 to 09.04.2021
Report Issue Date	:	09.04.2021

The results of the tests conducted on the bitumen sample are as follows:

Sl. No	Description	Test Method as per IS	Test Result	Requirement as per IS:73:2013 (RA-2018) for VG 30
1	Penetration at 25 °C, 1/10 mm	IS :1203 -1978 (RA-2019)	48	Min. 45
2	Softening point (R & B), °C	IS :1205 -1978 (RA-2019)	49	Min. 47
3	Ductility at 27°C, cm	IS :1208 -1978 (RA-2019)	100	Min. 40
4	Flash Point, °C	IS :1209 -1978 (RA-2019)	296	Min. 220

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/BC/AIV/2021-22 12.04.2021

TEST REPORT ON IMPACT VALUE OF AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Hot mix plant, Bangalore.
* Type of Mix	:	Bituminous Concrete
Test Method as per	:	IS - 2386 (Part- 4) : 1963 (RA-2016)
Date of Testing	:	12.04.2021
Report Issue Date	:	12.04.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	393	395	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	91	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	304	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.39	23.04	22.71

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Note:

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Job No.: CTCE/BBMP/KRIDL/BC/AIV/2021-22 12.04.2021

TEST REPORT ON IMPACT VALUE OF AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Hot mix plant, Bangalore.
* Type of Mix	:	Bituminous Concrete
Test Method as per	:	IS - 2386 (Part- 4) : 1963 (RA-2016)
Date of Testing	:	12.04.2021
Report Issue Date	:	12.04.2021

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	303	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	21.45	22.11	21.78

*Information is furnished by the Customer/Representative.

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Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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Job No.: CTCE/BBMP/KRIDL/BC/Shape.T/2021-22 12.04.2021

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Hot mix plant, Bangalore
Test Method as per	:	IS - 2386(Part -1) : 1963 (RA-2016)
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	12.04.2021
Report Issue Date	:	12.04.2021

Sl.No.	Description	Result
1	Flakiness Index	11.23%
2	Elongation Index	13.62%
3	Combined Flakiness & Elongation Index	24.85%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 35%

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Job No.: CTCE/BBMP/KRIDL/BC/Shape.T/2021-22 12.04.2021

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Hot mix plant, Bangalore
Test Method as per	:	IS - 2386(Part -1) : 1963 (RA-2016)
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	12.04.2021
Report Issue Date	:	12.04.2021

Sl.No.	Description	Result
1	Flakiness Index	12.21%
2	Elongation Index	13.74%
3	Combined Flakiness & Elongation Index	25.95%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 35%

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Job No.: CTCE/BBMP/KRIDL/BC/Stripping/2021-22 15.04.2021

TEST REPORT ON STRIPPING VALUEOF ROAD AGGREGATES (STATIC IMMERSION TEST)

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
Test Method as per	:	IS: 6241
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

Type of binder : VG 30

Percentage of binder used : 5.00% by wt.

Total weight of aggregate : 200 g

Total weight of binder : 10.00 g

Temperature of water-bath : 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.1	3.20	96.80
2	3.2		
3	3.3		

*Information is furnished by the Customer/Representative.

Comments:

→ Minimum allowable Aggregate retained coating for Bituminous Concrete is 95%

Note:

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Job No.: CTCE/BBMP/KRIDL/BC/Sp_Wa/2021-22

15.04.2021

TEST REEPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Hot mix plant, Bangalore
Test Method as per	:	IS - 2386(Part -3) : 1963 (RA-2016)
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	1999	2001	2000	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1239	1238	1245	
4	Weight of saturated surface dry aggregate in air	W_3 g	2024	2025	2023	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	785	787	778	
6	Weight of oven dried aggregate	W_4 g	2008	2007	2009	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.558	2.550	2.582	2.563
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.611	2.610	2.630	2.617
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.80%	0.90%	0.70%	0.80%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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Job No.: CTCE/BBMP/KRIDL/BC/Bitumen/2021-22

15.04.2021

TEST REPORT ON BITUMEN CONTENT OF BITUMINOUS CONCRETE MIX

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	6th Cross, Lake Road, Oni Road, Bagalagunte old Village.
Test Method as per	:	IRC:SP:11-1984
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	473	471
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	27.00	29.00
7. Bitumen content in %	5.40	5.80
8. Average	5.60	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/BC/Bitumen/2021-22 15.04.2021

TEST REPORT ON BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	6th Cross, Lake Road, Oni Road, Bagalagunte old Village.
Test Method as per	:	IRC:SP:11-1984
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-17 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	41.23	8.72	8.72	91.28	90-100
9.5	35.62	7.53	16.25	83.75	70-88
4.75	78.62	16.62	32.87	67.13	53-71
2.36	69.25	14.64	47.51	52.49	42-58
1.18	53.12	11.23	58.74	41.26	34-48
0.6	55.41	11.71	70.45	29.55	26-38
0.3	45.14	9.54	80.00	20.00	18-28
0.15	29.33	6.20	86.20	13.80	12-20
0.075	40.12	8.48	94.68	5.32	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-17 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	33.02	7.01	7.01	92.99	90-100
9.5	41.95	8.91	15.92	84.08	70-88
4.75	72.14	15.32	31.23	68.77	53-71
2.36	73.65	15.64	46.87	53.13	42-58
1.18	65.28	13.86	60.73	39.27	34-48
0.6	45.01	9.56	70.29	29.71	26-38
0.3	31.22	6.63	76.92	23.08	18-28
0.15	31.95	6.78	83.70	16.30	12-20
0.075	46.28	9.83	93.52	6.48	4-10

*Information is furnished by the Customer/Representative.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L

Authorised Signatory

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Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/BC/Agg/2021-22 15.04.2021

TEST REPORT ON GRADATION OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
* Name of Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Sample ID	:	Bituminous Concrete
Test Method as per	:	IS - 2386(Part -1) : 1963 (RA-2016)
* Type of Mix	:	Hot mix plant, Bangalore
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

Total Weight of Sample: 5200 gm

Sieve Size, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per `MORTH 500-17
13.2	426	8.19	8.19	91.81	90 - 100	
9.5	451	8.67	16.87	83.13	70 - 88	
4.75	786	15.12	31.98	68.02	53 - 71	
2.36	734	14.12	46.10	53.90	42 - 58	
1.18	654	12.58	58.67	41.33	34 - 48	
0.600	544	10.46	69.13	30.87	26 - 38	
0.300	561	10.79	79.92	20.08	18 - 28	
0.150	326	6.27	86.19	13.81	12 - 20	
0.075	361	6.94	93.13	6.87	4 - 10	

Total Weight of Sample: 5300 gm

Sieve Size, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH 500-17
13.2	357	6.74	6.74	93.26	90 - 100	
9.5	482	9.09	15.83	84.17	70 - 88	
4.75	861	16.25	32.08	67.92	53 - 71	
2.36	796	15.02	47.09	52.91	42 - 58	
1.18	661	12.47	59.57	40.43	34 - 48	
0.600	556	10.49	70.06	29.94	26 - 38	
0.300	598	11.28	81.34	18.66	18 - 28	
0.150	251	4.74	86.08	13.92	12 - 20	
0.075	359	6.77	92.85	7.15	4 - 10	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/BC/Stability/2021-22 15.04.2021

TEST REPORT ON MARSHALL STABILITY OF MIX

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
*Name of the Work	:	Improvement to Roads and Drains at Bagalagunte old village, Harijana Colony in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/DD/WO/592/2019-20 Date:18.03.2020
* Source	:	Hot mix Plant, Bangalore
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	15.04.2021
Report Issue Date	:	15.04.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-11)
1	Marshall Stability (Kn at 60°C)	9.30	10.35	9 Kn (min)
2	Marshall flow (mm)	2.74	3.75	2 – 4
3	Voids in Compacted Mix %	4.33	4.94	3 – 5
4	Percent voids in Mineral Aggregate (VMA)	13.54	13.96	Min 12
5	Percent Voids filled with Bitumen (VFB)	68.68	69.49	65 - 75
6	Density, g/cc	2.27	2.28	--

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Pooja K.L

Authorised Signatory

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